Bruhath Bangalore Mahanagara Palike

Financial Bid Comparative Statement

Tender Notification No: EE/RRND/Tend/19/2019-20 Date: 02.03.2020

Indet No: BBMP/2019-20/WS/WORK_INDENT40838

Name of Work: Drilling of Borewells and Maintenance of RO Plant in RR Nagar Constituency

Sl No	Item Name	Unit	Estimate Quantity	As per PWD SR 2018-19		Rates quoted by NAGASANDRA RAMARAO SATISH (SATHYA BOREWELL CLEANING)		Rates quoted by NAGASANDRA SHAMANNA RAMARAO (RAJALAKSHMI ROCK DRILLERS)	
				Estimate Rate	Total Amount	Rate	Total Amount	Rate	Total Amount
1	Raw water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon	Nos	4.00	24500.00	98000.00	26700.00	106800.00	26680.00	106720.00
2	Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating	Nos	4.00	33000.00	132000.00	35607.00	142428.00	35937.00	143748.00
3	Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating	Nos	4.00	62500.00	250000.00	67440.00	269760.00	68068.00	272272
4	Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure	Nos	4.00	62000.00	248000.00	66898.00	267592.00	67518.00	270072
5	Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,Material of	Nos	4.00	85000.00	340000.00	91715.00	366860.00	92656.00	370624
6	Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No.	Nos	4.00	42000.00	168000.00	45318.00	181272.00	45738.00	182952
7	Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-	Nos	4.00	89000.00	356000.00	96031.00	384124.00	96921.00	387684
8	Pressure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line.	Nos	4.00	85000.00	340000.00	91715.00	366860.00	92565.00	370260.00
9	Membrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep	Nos	3.00	88000.00	264000.00	94952.00	284856.00	95832.00	287496.00

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10	High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-	Nos	3.00	55000.00	165000.00	59345.00	178035.00	59895.00	179685.00
11	Micron Filter, Type -JUMBO,Material of construction housing-poly propelene	Nos	3.00	78000.00	234000.00	84162.00	252486.00	84942.00	254826.00
12	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor,	Nos	4.00	86000.00	344000.00	92794.00	371176.00	93654.00	374616.00
13	PH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd../ASIA LMI/Zeolite,Material of	Nos	4.00	83000.00	332000.00	89557.00	358228.00	90387.00	361548.00
14	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE.	Nos	2.00	15000.00	30000.00	16185.00	32370.00	16335.00	32670.00
15	Tank levelswitch-one No	Nos	3.00	78000.00	234000.00	84162.00	252486.00	84942.00	254826.00
16	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated	Nos	3.00	74500.00	223500.00	80385.00	241155.00	81130.00	243390.00
17	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd../ASIA LMI/Zeolite,ALFA Flow rate-2000L/H	Nos	4.00	35000.00	140000.00	37765.00	151060.00	38115.00	152460.00
18	Wending Machine ,Digital Swiping Card Type	Nos	5.00	3768.00	18840.00	4065.00	20325.00	4103.00	20515.00
19	Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical	Rmtr	250.00	347.00	86750.00	374.00	93500.00	377.00	94250.00
20	Sinking borewell of 165 mm dia clear using super fast hydraulic ◆rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	442.00	110500.00	476.00	119000.00	481.00	120250.00
21	Sinking borewell of 165 mm dia clear using super fast hydraulic ◆rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	456.00	114000.00	492.00	123000.00	496.00	124000.00
22	Sinking borewell of 165 mm dia clear using super fast hydraulic ◆rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	536.00	134000.00	578.00	144500.00	583.00	145750.00
23	Sinking borewell of 165 mm dia clear using super fast hydraulic ◆rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	634.00	158500.00	684.00	171000.00	690.00	172500.00

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24	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	700.00	175000.00	755.00	188750.00	762.00	190500.00
25	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	825.00	206250.00	890.00	222500.00	898.00	224500.00
26	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	250.00	900.00	225000.00	971.00	242750.00	980.00	245000.00
27	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20	Rmtr	100.00	1129.00	112900.00	1218.00	121800.00	1229.00	122900.00
28	Providing and fixing 250mm dia PVC (casing pipe)	Rmtr	30.00	2600.00	78000.00	2805.00	84150.00	2831.00	84930.00
29	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and	Rmtr	150.00	1325.00	198750.00	1429.00	214350.00	1442.00	216300.00
30	Providing 175mm Dia M.S. Collar	Nos	25.00	150.00	3750.00	161.00	4025.00	163.00	4075.00
31	Providing 175mm dia Bore Cap CE (M)	Nos	5.00	100.00	500.00	108.00	540.00	108.00	540.00
32	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)	Nos	5.00	49955.00	249775.00	53901.00	269505.00	54401.00	272005.00
33	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately)	Rmtr	1750.00	411.28	719740.00	443.00	775250.00	447.00	782250.00
34	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance	Rmtr	3550.00	126.70	449785.00	136.00	482800.00	137.00	486350.00
35	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with	Nos	5.00	1345.14	6725.70	1451.00	7255.00	1464.00	7320.00
36	Spplying and fixing 50mm GI Union.	Nos	5.00	223.70	1118.50	241.00	1205.00	243.00	1215.00
37	Spplying and fixing 50mm GI Elbow.	Nos	5.00	111.80	559.00	120.00	600.00	121.00	605.00

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38	Spplying and fixing 50mm GI Nipple.	Nos	5.00	104.30	521.50	112.00	560.00	113.00	565.00
39	Spplying and fixing 50mm GI Hose colleres	Nos	290.00	103.00	29870.00	112.00	32480.00	112.00	32480.00
40	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2	Nos	5.00	175.20	876.00	189.00	945.00	190.00	950.00
41	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy	Nos	5.00	2374.00	11870.00	2561.00	12805.00	2585.00	12925.00
42	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps	Nos	5.00	1800.00	9000.00	1888.00	9440.00	1960.00	9800.00
43	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC	Nos	5.00	430.00	2150.00	451.00	2255.00	468.00	2340.00
44	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base	Nos	5.00	6400.00	32000.00	6713.00	33565.00	6969.00	34845.00
45	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.	Nos	5.00	745.00	3725.00	781.00	3905.00	811.00	4055.00
46	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring	Mtrs	100.00	45.00	4500.00	47.00	4700.00	49.00	4900.00
47	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating	Nos	20.00	400.00	8000.00	419.00	8380.00	435.00	8700.00
48	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr	Nos	5.00	2999.70	14998.50	3146.00	15730.00	3266.00	16330.00
49	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete	Mtrs	40.00	102.00	4080.00	106.00	4240.00	111.00	4440.00
50	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-	Mtrs	50.00	150.00	7500.00	157.00	7850.00	163.00	8150.00
51	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16	Nos	125.00	11.88	1485.00	12.00	1500.00	13.00	1625.00

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52	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG	Rmtr	10.00	335.00	3350.00	351.00	3510.00	364.00	3640.00
53	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps	Nos	5.00	270.00	1350.00	283.00	1415.00	294.00	1470.00
54	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 63 amps	Nos	15.00	227.00	3405.00	238.00	3570.00	247.00	3705.00
55	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock	Cum	81.45	952.94	77616.96	1000.00	81450.00	1037.00	84463.65
56	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil	Cum	122.51	475.94	58307.41	500.00	61255.00	518.00	63460.18
57	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all	Rmtr	880.00	457.92	402969.60	530.00	466400.00	498.00	438240.00
58	Making connection of G.I.distribution branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing	Each	5.00	511.98	2559.90	537.00	2685.00	557.00	2785.00
59	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all	Mtrs	32.50	166.42	5408.65	174.00	5655.00	181.00	5882.50
60	Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange,	Mtrs	470.00	136.74	64267.80	143.00	67210.00	148.00	69560.00
61	KSRB 2-4 : Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after	Cum	85.76	128.26	10999.58	135.00	11577.60	139.00	11920.64
62	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end	Cum	118.20	95.40	11276.28	100.00	11820.00	103.00	12174.60
63	KSRB 2-4 : Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all	Each	5.00	1843.34	9216.70	1933.00	9665.00	2007.00	10035.00
64	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of	Each	5.00	149.46	747.30	156.00	780.00	162.00	810.00
65	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal	Cum	61.26	5408.12	331301.43	5675.00	347650.50	5889.00	360760.14

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66	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for	Cum	61.26	5770.64	353509.41	6055.00	370929.30	6284.00	384957.84
	Total Summary Amount				**8415805.22**		**9078280.40**		**9157573.55**
	% when compared to Amount (PWD SR 2018-19) as per sanctioned estimate.					**7.87**		**8.81**	
	Remarks					**L1**		**L2**	

Executive Engineer
Rajarajeshwari nagar Division
BBMP

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